The Water Cycle

Draw and label the water cycle. Include arrows to denote the flow of water. Be sure to include the following: Precipitation, Evaporation, Transpiration, Runoff, and Seepage. Write a brief description of how water moves through the water cycle.

1. Identify and define the 3 main processes that drive the water cycle?

2. What are the main reservoirs of water in the environment?

3. What are the three main phases of water that exist in the environment?

4. How does the water cycle differ depending on different ecosystems?

5. What are seepage and runoff?

The Carbon Cycle

Draw and label the carbon cycle. Include arrows to denote the flow of carbon. Be sure to include the following: Photosynthesis, respiration (plants, animals, detirvors), consumption, the atmosphere, the ocean, rocks, and fossil fuels. Write a brief description of how carbon moves through the ecosystem.

1. Identify and define the main processes that drive the carbon cycle?

2. What are the 3 main reservoirs of carbon in the environment? Which one is the largest?

3. What roles do consumers and producers play in the carbon cycle?

4. How does the carbon cycle affect the ozone layer?

5. What would happen if all of the producers in the environment stopped being able to perform photosynthesis?

The Nitrogen Cycle

Draw and label the nitrogen cycle. Include arrows to denote the flow of nitrogen. Be sure to include the following: Atmosphere, nitrogen fixation, nitrification, denitrification, ammonification, and consumption. Write a brief description of how nitrogen moves through the ecosystem.

1. Identify and define the main processes that drive the nitrogen cycle?

2. What are the 2 main reservoirs of nitrogen in the environment?

3. How do produces obtain the nitrogen they need to survive?

4. What role do bacteria play in the nitrogen cycle?

5. What are the different forms of nitrogen that appear in the environment?

The Phosphorous Cycle

Draw and label the phosphorous cycle. Include arrows to denote the flow of phosphorous. Be sure to include the following: Erosion, absorption, consumption, waste, runoff, and sediment. Write a brief description of how phosphorous moves through the ecosystem.

1. Identify and define the main processes that drive the Phosphorous cycle?

2. What are the 5 main reservoirs of phosphate in the environment?

3. Why is phosphate important to producers and consumers?

4. Where do producers and consumers obtain phosphate?

5. Under what conditions can phosphate damage the environment? Give an example.